



MLC 9000+™

Maximum Productivity and Versatility for Control without Compromise!

DeviceNet Bus Communication Module

DESCRIPTION

The DeviceNet Bus Communication Module (BCM) is part of the MLC 9000+ DIN rail mount PID control system. The BCM handles communication between up to 8 single or multi loop controller modules and the DeviceNet network. Systems larger than 32 loops can be built using multiple BCMs, within the limitations of your DeviceNet system.

DeviceNet

CE

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APPLICATIONS:

Ideal for multi-zone temperature or process control applications (speed, flow, pressure, etc). Takes the place of either a PLC and multiple discrete controllers or combination PLC/HMI. For users seeking an integrated DeviceNet protocol.

INDUSTRIES

Packaging, plastics, converting, semi-conductor, food processing, heat treat and environmental test chambers to name a few.

FEATURE/BENEFITS

- DeviceNet Configuration Port
- Supports up to 500kbps
- DIN Rail Mounting
- Software Configuration
- Configuration Data Assemblies

DeviceNet Bus Communication Module

SPECIFICATIONS*

STANDARD FEATURES

Protocol: DeviceNet (Class 2 Slave Device)
Supports up to 8 LCM modules per BCM (for max of 32 loops); Larger systems require multiple BCM's (dependent on bus module(s) type ordered)
Equipped with DeviceNet Port and Partlow Configuration Port
Construction/Enclosure: Compact, modular, behind the panel (BTP), DIN rail design; NEW ABS black bus module with dedicated Partlow configuration port

OPERATING CHARACTERISTICS
(APPLIES TO BOTH BCM/LCM)

Operating Temp: 32° to 131°F (0° to 55°C)
Storage Temp: -4° to 176°F (-20° to 80°C)
Humidity: 30% to 90% non-condensing R.H.

ELECTRICAL

Power Consumption: 30W Max
Power Connector: 2-way; 5.08mm (0.2"); Combicon type
Line Voltage: 18-30VDC (including ripple)

COMMUNICATIONS INTERFACES

DeviceNet PORT
Protocol: DeviceNet (Class 2 Slave Device)
Port: Connects to a DeviceNet system
Function: Connection of the MLC 9000+ system to a DeviceNet Master Device
Data Rate: 125kbps, 250 kbps or 500kbps; MAC ID 0 – 63 (Defaults 125kbps, ID 63). Configured using the MLC 9000 Configurator software, via the configuration port
I/O Size: Dependant on Data Assembly Configuration. Maximum 256 bytes (total) of input/output data limited by DeviceNet
Messaging Supported: Implicit messages and Explicit messages
Diagnostics: Two Color LED, indicating On/Off-line, Self Test, Bus Fault and Communication Status
EDS File: The EDS file is defined by the MLC9000+ Configuration Software
CONFIGURATION PORT
Protocol: Partlow PC Configuration protocol only
Function: Communicates with Partlow MLC 9000+ Configuration Software allowing the user to fully customize the communication interface to the MLC 9000+ system. The user drags and drops the required parameters into the data assemblies which creates an EDS file for use with your DeviceNet master device.
Diagnostics: Three color LED, indicating Power Fail, Bus Alarm & Communications Status
Connector: 6-way; RJ11 Type

RATINGS/AGENCY APPROVALS

Safety: EN61010 and UL/ULc 3121-1
EMC: Certified EN61326-1: 1997
Other: ISO 9002 Registered; ODVA approval pending.

PROTECTION

IEC IP20; Designed for installation in an enclosure which is sealed against dust and moisture.

PHYSICAL DIMENSIONS

Width: 1.18" (30mm); Up to 8.11" (206mm) for 8 module system up to 32 loops
Depth: 4.72" (120mm)
Height: 3.94" (100mm)
Weight: 7.4 oz (0.21kg)
Mounting: directly fitted onto 35mm Top-Hat DIN rail mounting (EN55022, DIN 46277-3)

WARRANTY

3 Years

ORDERING INFORMATION

MLC 9002-BM230-DN

BCM with DeviceNet & Configuration Ports

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